



2577  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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JAN 9 2003  
TECHNICAL UNIT

In re Application of GREEN ET AL. )  
Art Unit: 2877 )  
Serial Number 09/823,992 )  
Examiner: N/A )  
Filed April 3, 2001 )  
Atty Docket: GRE001 )

For: MASS SPECTROMETER AND METHODS OF MASS SPECTROMETRY

THE COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

Sir:

ITEMS	AS PREVIOUSLY PAID FOR	EXTRA	SMALL ENTITY	FULL FEE
Total Claims	34	9	x \$9 =	x \$18 = \$162.00
Independent Claims	10	0	x \$42 =	x \$84 = 0.00
Multiple Dependent Claims in Proper Form Presented			+ \$140 =	+ \$280 =
TOTAL				\$ 162.00

The below identified communication(s) or document(s) is(are) submitted in the above application or proceeding:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Preliminary Amendment | <input type="checkbox"/> Issue Fee Transmittal                      |
| <input type="checkbox"/>                                  | <input checked="" type="checkbox"/> Check in the Amount of \$162.00 |
| <input type="checkbox"/>                                  | <input type="checkbox"/> Assignment                                 |
| <input type="checkbox"/>                                  | <input type="checkbox"/> Response                                   |

☒ Please charge Deposit Account Number 04-1075 for any deficiency or credit any surplus in connection with this communication. A duplicate copy of this sheet is provided for use by the Deposit Account Branch.

Respectfully submitted,  
  
Everett G. Diederiks, Jr.  
Attorney for Applicant  
Registration Number: 33,323

Date: January 7, 2003

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PRELIMINARY AMENDMENT

Assistant Commissioner of Patents  
Washington, D.C. 20231

Dear Sir:

Prior to examination of the above-identified new U.S. patent application,  
kindly amend the application in accordance with the following particulars:

IN THE CLAIMS:

Kindly cancel claims 1-34 in their entirety, without prejudice or disclaimer,  
and insert new claims 35-77 as follows:

35. (New) A mass spectrometer comprising:

an ion source;

a lens downstream of said ion source wherein in a first high sensitivity mode  
of operation said lens focuses a beam of ions and in a second low sensitivity mode of  
operation said lens substantially defocuses a beam of ions;

a mass analyser downstream of said lens, said mass analyser comprising an ion  
detector; and

control means arranged to switch said lens from said first high sensitivity  
mode to said second low sensitivity mode upon determining that particular mass peaks  
in a mass spectrum are saturating or approaching saturation and mass peaks within a  
particular mass range in a mass spectrum are saturating or approaching saturation.

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